

ABSTRACT

The present invention provides a method for synchronizing the transmission of real time synchronous data packets over **asynchronous** optical networks between at least two user terminal nodes. This methodology proposes to use
5 a receiver and transmitter module implemented within intermediating communication devices that are connected between the TDM equipment and the asynchronous optical network. According to this method, sequence numbers are encapsulated within the data packets payload at the transmitter terminal node, and a **Stratum 3** classified clock pulse is provided to the
10 transmitter terminal node. At the receiver module, the incoming data packets sequence number order is identified. In the case of detecting offsets of non-sequenced data packets, the clock rate of the receiving note is compensated. Finally the frequency rate of the incoming data signal is divided and the data transmission signal amplitude is attenuated for reducing jitter and wander in
15 compliance with stratum 3 accuracy standards;

Terasync

- 17 -